PHILIPS

15" Extended VGA digital autoscan color monitor

PHILIPS

15B1222N
Digital *Auto*Scan
Colour Monitor

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Introduction

Thank you for your patronage. This digital AutoScan colour monitor displays sharp images of text and graphics with an optimum for resolution up to 1024x768 pixels non-interlaced by maximum 75 Hz refresh rate. The maximum display resolution is 1280x1024 pixels non-interlaced mode.

This monitor automatically scans horizontal frequencies from 30 to 66 KHz, and vertical frequencies from 50 to 110 Hz. You may use this colour monitor with a computer which utilizes IBM VGA, 8514/A, XGA, ,CD ROM, Multimedia video card, and all VESA non-interlaced SVGA and EVGA resolutions in the above mentioned frequencies ranges. The wide range includes IBM PC, PC/XT, PC/AT, PS/2, 386SX, 486,586, Pentium or other compatible systems.

This monitor incorporates a DDC1/DDC2B function that allows bidirectional communication between the monitor and PC system for optimal video configuration.

This monitor incorporates the Audio feature, providing you with excellent audio quality.

This colour monitor complies with MPRII low emission recommendations and VESA/NUTEK power saving requirements. The power saving functions ONLY when used with VESA DPMS compliant PC's and/or video controllers. By reducing power consumption to less than 15 Watts in stand-by or suspend mode and less than 5 Watts in off mode, the monitor also complies with the Energy Star Computers Program initiated by the EPA.

Note: If you experienced your monitor display is changing from color to mono, it's possible that you are using a non-VESA-DDC-standard video card. Please consult with your local Philips dealer for more information.

The EPA ENERGY STAR emblem does not represent EPA endorsement of any product or service.
IBM, IBM PC/XT, PC/AT, PS/2 (Personal System/2), VGA (Video Graphics Array), 8514/A and XGA(Extended Graphics Array) are registered trade marks of International Business Machines Corporation.
VESA means Video Electronic's Standard Association.
NUTEK represents the Swedish National Board for Industrial and Technical Development.

Safety precautions and maintenance

- Disconnect the monitor from the mains supply if the monitor is not to be used for an extended period of time.
- Do not attempt to remove the back cover, as you will be exposed to a shock hazard. The back cover should only be removed by qualified service personnel.
- Do not place objects on top of the monitor cabinet, which could fall into vents or which could cover them and prevent proper cooling of the monitor's electronics.
- Do not expose the monitor to rain or excessive moisture to avoid the risk of shock or permanent damage to the set.
- Do not use alcohol or ammonia based liquid to clean the monitor. If necessary, clean with a slightly damp cloth. Disconnect the monitor from the mains supply before cleaning.
- Switch off your monitor and consult a service technician if the monitor does not operate normally when the operating instructions are followed.

Package

After unpacking the shipping carton, check if you have received the following items:

1. The monitor
2. Pedestal
3. Mains cord
4. Audio cable

End of life disposal

Your new set contains materials which can be recycled and reused. Specialized companies can recycle your product to increase the amount of reusable materials and to minimize the amount of materials to be disposal of.

Please inform yourself on local regulations on disposal of your old set.

Installation

NOTE: **Before installing this monitor, please refer to the user's guides of your computer and video adapter to make sure if these equipments require any change of setting.**

Positioning/Ventilation

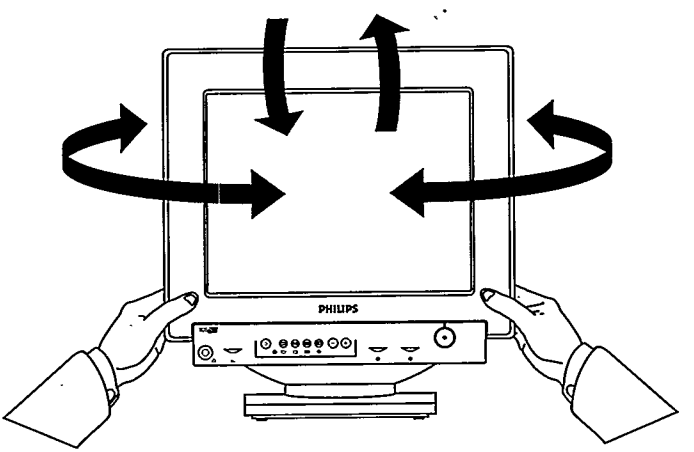
NOTE:
WHEN POSITIONING THIS EQUIPMENT ENSURE THAT THE MAINS PLUG AND SOCKET IS EASILY ACCESSIBLE.

Do not place the monitor near a heat source.
To prevent overheating, ensure that the ventilation openings of the monitor are not covered.

Pedestal

The pedestal enables you to place the monitor into a convenient position with best viewing comfort by tilting and/or turning the monitor.

To fit the pedestal, refer to the illustration on the inside back-cover of this manual.

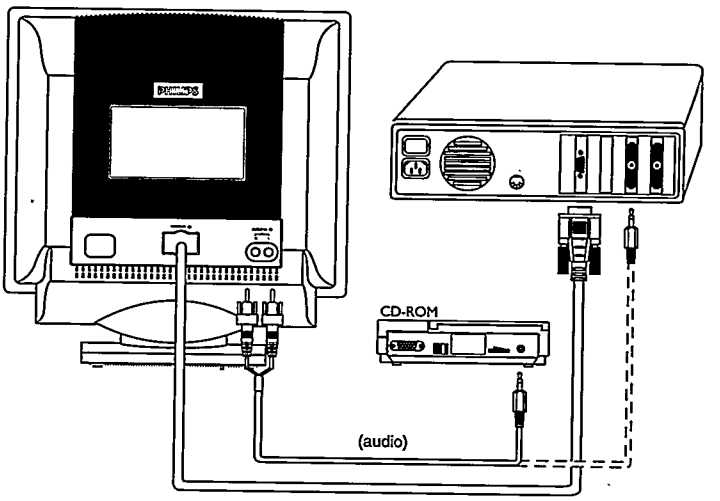


Connection to the computer

WARNING: Please be sure the AC power to your computer is "OFF" before connecting or disconnecting any display peripheral. Failure to do so may cause serious personal injury as well as permanent damage to your computer equipments.

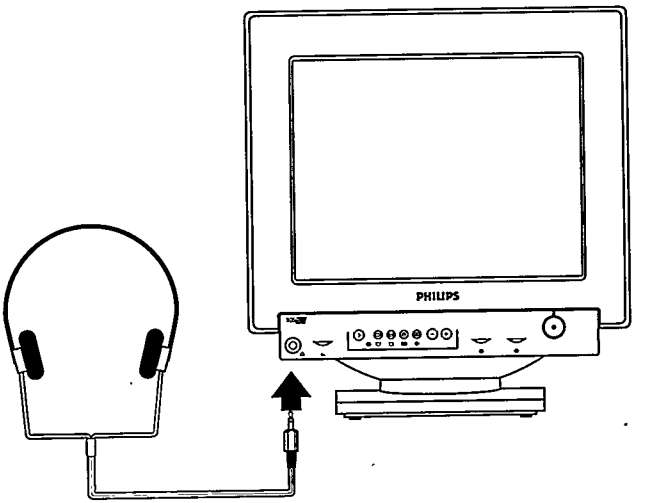
1. IBM PC, PC/XT, PC/AT, PS/2, or the compatibles:

- Connect the fixed 15-pin D-sub connector of the video signal cable to the computer at the video connector on the video card, and fix it firmly with the screws on the plug.
- Connect the audio cable to the input of audio connector, which located at the rear of monitor according to the following:
  - The red audio plug should be connected to the red audiophone connector.
  - The white audio plug should be connected to the white audiophone connector.
- Connect the other end of audio cable to the audio connector of media card at the rear of computer or CD-ROM.

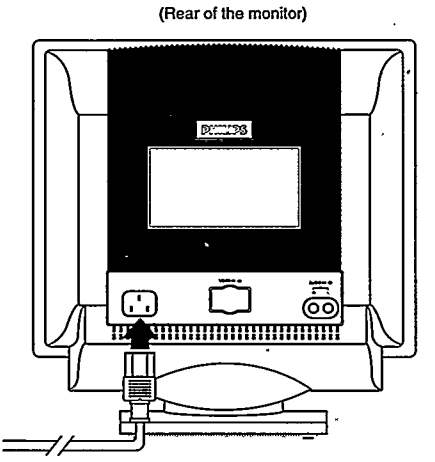


2. Earphone Connection :

- Connect your earphone plug (must be mini Jack type) to the earphone connector at the front panel of the monitor.
- The speakers will be switched off when earphone is plugged in.



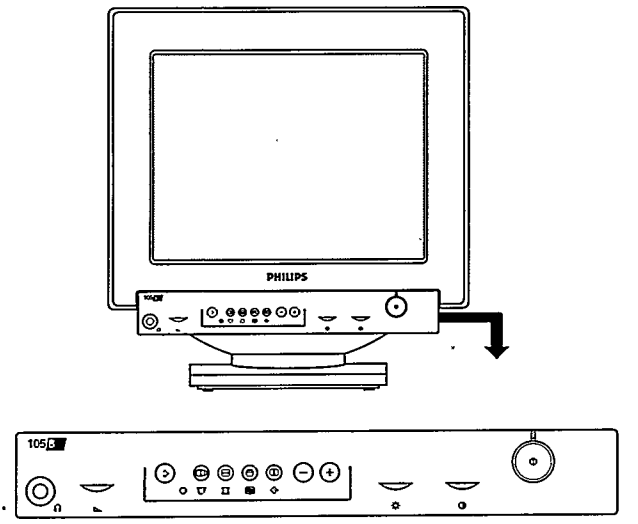
Connection to the mains



Connecting to the mains
This monitor is set to operate at a mains supply of 100-240 volts AC. If the mains voltage in your home is not between this, consult your dealer.
Connect one end of the mains cord to the mains socket at the rear of monitor, and the other end to the mains supply.

The monitor will be operating in power saving mode if you switch on your monitor without signal input from PC. (Please refer to Power Management Signalling instruction.)

Front Control locations and functions



For an optimized adjustment of the picture following controls are available at the front.

POWER.
- Press this knob, the green LED lights and the power is ON.
- Press this knob again, the green LED disappears and the power is OFF.

CONTRAST
- Used to adjust the picture contrast level.

BRIGHTNESS
- Used to adjust the overall screen brightness as a compensation for ambient light.

"+" or "-"
- Press "+" or "-" to adjust the selected function.

SHIFT key
- To select the level of function.

"Shift" LED off - Control is on first level
"Shift" LED on - Control is on second level

First level of the function pads:

- H-Shift : to adjust the horizontal position of the image.
- H-Size : to adjust the horizontal amplitude of the image.
- V-Shift : to adjust the vertical position of the image.
- V-Size : to adjust the vertical amplitude of the image.

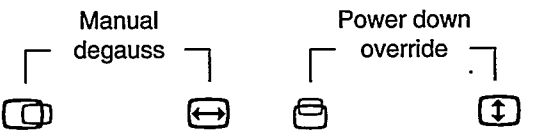
Second level of the function pads:

- Trapezoid : to correct the trapezoid distortion of the image.
- Pincushion : to correct the barrel distortion of the image
- Rotation : to correct the picture tilt caused by earth magnetic field influence.
- Recall : to recall original factory preset mode

Double-key functions:

Manual degauss : Press H-Shift and H-Size pads simultaneously

Power down override: Press V-Shift and V-Size pads simultaneously



VOLUME

- Used to adjust audio volume.

Remarks:

1. When pressing any function pad, the "Shift" LED will flash once to indicate the function has been selected.

2. Once the limit of the adjustable range has been reached, the shift LED will flash continuously.

3. The power down override function will be reset whenever the monitor is switched off.

4. When pressing any function pad under power saving status, the set will recover temporarily (around 10 seconds), to indicate the set is in functional status.

5. Any change in rotation setting will influence all video modes.

Adjustment

The monitor is pre-set with 10 modes for optimal display size and centering as indicated in the following table:

Mode	Resolution (dots x lines)	Horizontal Freq.(KHz)	Vertical Freq.(Hz)	Remark
VGA	640 x 400	31.5	70	Non-interlaced
VGA	640 x 480	31.5	60	Non-interlaced
VESA/75	640 x 480	37.5	75	Non-interlaced
VESA/56	800 x 600	35.2	56	Non-interlaced
VESA/75	800 x 600	46.9	75	Non-interlaced
VESA/72	800 x 600	48.0	72	Non-interlaced
VESA/60	1024 x 768	48.3	60	Non-interlaced
VESA/70	1024 x 768	56.5	70	Non-interlaced
VESA/75	1024 x 768	60.0	75	Non-interlaced
VESA/60	1280 x 1024	64.0	60	Non-interlaced

(A) User mode:

- The set will save the user's setting parameters automatically. After 10 seconds of key-pad inactivity, the LED will flash twice to indicate the parameters being saved.
- Press ⇳ to recall factory preset mode.

(B) New mode

- The monitor is reserved for 4 new modes in case non-standard video modes are used.

(C) Power Management Signalling

Power Management Definition					
VESA DPMS				POWER SAVING STATES	
MODE	VIDEO	H-SYNC	V-SYNC	POWER USED	POWER SAVING(%)
ON	Active	Yes	Yes	< 100 Watts	0 %
Stand-by	Blanked	No	Yes	< 15 Watts	> 82 %
Suspend	Blanked	Yes	No	< 15 Watts	> 82 %
OFF	Blanked	No	No	< 5 Watts	> 94 %

Note: The video will be blanked and the power LED color will change into following colors whenever the monitor goes into power management status.

Green LED light - "Normal" operation
Yellow LED light - "Stand by" or "Suspend" mode
Amber LED light - "OFF" mode

This monitor is Energy Star compliant when used with a computer equipped with DPMS.
PHILIPS is a partner in the EPA's Energy Star Computer Program.

Remark:

- The audio function is disabled in any power down mode.
- The transition time from "on" mode to any power down mode will take around 5 seconds.

Technical information

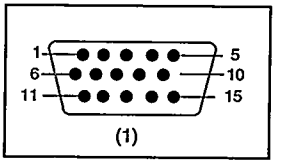
(I) General:

Picture tube	:	15 inch (38.1 cm), 90° deflection, neck diameter 29.1 mm, tinted screen glass non-glare, black matrix,light transmission 57%, phosphor P22 medium short, dotted pitch 0.28 mm.
Screen area		
Recommended Display Area: 260 mm (H) x 195 mm (V)		
Maximum Display Area	:	280 mm (H) x 210 mm (V)
Line (Horizontal) frequency	:	30 - 66 KHz (automatically)
Raster (Vertical) frequency	:	50 - 110 Hz (automatically)
Mains voltage	:	100-240 VAC; 50-60 Hz
Power consumption	:	85 watt nominal, 100 watt max.
Maximum dot rate	:	108 MHz
Video input signal	:	0.7 Vp-p linear / 75 Ohm
Audio input signal	:	150 mVrms linear/22 K ohms
Audio output	:	1 Watt per channel
Earphone output	:	2 x 15 mW in 32 ohm
Sync type	:	. Separate H,V, TTL level . Composite H/V, TTL level
Sync Polarity	:	Positive or Negative
Pedestal	:	Tilt - 5° forward, 15° backward; swivel - 90° leftward or rightward.
Unit dimension (W x H x D)	:	367 x 384 x 395 mm
Net weight	:	12.7 Kg
Operating condition		
Temperature	:	0° C to 40° C
Humidity	:	20% to 80%
Storage condition		
Temperature	:	-25° C to 75° C
Humidity	:	20% to 95%
DDC1/DDC2B	:	VESA standard

(II) Compatibility:

. IBM PC, PC/XT, PC/AT, PS/2, and other compatibles.
. VESA Guide lines and Standards.

(III) Pin assignment:



(1) The 15-pin D-sub connector (male) of the signal cable (IBM systems):

Pin No.	Assignment	Pin No.	Assignment
1	Red video input	9	No pin
2	Green video input	10	Logic ground
3	Blue video input	11	Identification output - connected to pin 10
4	Identification output - Connected to pin 10	12	Serial data line (SDA)
5	Ground	13	H. Sync / H+V
6	Red video ground	14	V. Sync (VCLK for DDC)
7	Green video ground	15	Data clock line (SCL)
8	Blue video ground		

※ Because of a policy of continuous product improvement, the above specifications are subject to change without notice.

Federal Communications Commission (FCC Statement)

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on. The user is encouraged to try to correct the interference by one or more of the following measures:

— Reorient or relocate the receiving antenna.
— Increase the separation between the equipment and receiver.
— Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
— Consult the dealer or an experienced radio/TV technician for help.

CAUTION: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Use only RF shielded cable that was supplied with the monitor when connecting this monitor to a computer device.

Warning:
WHEN POSITIONING THIS EQUIPMENT ENSURE THAT THE MAINS PLUG AND SOCKET IS EASILY ACCESSIBLE.
To prevent damage which may result in fire or shock hazard, do not expose this appliance to rain or excessive moisture.

THIS CLASS B DIGITAL APPARATUS MEETS ALL REQUIREMENTS OF THE CANADIAN INTERFERENCE-CAUSING EQUIPMENT REGULATIONS.

Commission Federale de la Communication
(Declaration FCC)

Note: Cet équipement a été testé et déclaré conforme auxlimites des appareils numériques de class B,aux termes de l'article 15 des règles de la FCC. Ces limites sont conçues de façon à fourir une protection raisonnable contre les interférences nuisibles dans le cadre d'une installation résidentielle. Cet appareil produit, utilise et peut émettre des hyperfréquences qui, si l'appareil n'est pas installé et utilisé selon les consignes données, peuvent causer des interférences nuisibles aux communications radio. Cependant, rien ne peut garantir l'absence d'interférences dans le cadre d'une installation particulière. Si cet appareil est la cause d'interférences nuisibles pour la réception des signaux de radio ou de télévision, ce qui peut être décelé en fermant l'équipement, puis en le remettant en fonction, l'utilisateur pourrait essayer de corriger la situation en prenant les mesures suivantes:

- Réorienter ou déplacer l'antenne de réception.
- Augmenter la distance entre l'équipement et le récepteur.
- Brancher l'équipement sur un autre circuit que celui utilisé par le récepteur.
- Demander l'aide du marchand ou d'un technicien chevronné en radio/télévision.

ATTENTION: Toutes modifications n'ayant pas reçu l'approbation des services compétents en matière de conformité est susceptible d'interdire à l'utilisateur l'usage du présent équipement.

N'utiliser que des câbles RF armés pour les connections avec des ordinateurs ou périphériques.

CET APPAREIL NUMERIQUE DE LA CLASSE B RESPECTE TOUTES LES EXIGENCES DU REGLEMENT SUR LE MATERIEL BROUILLEUR DU CANADA.

Information for Users in the U. S.

For units set at 115 V :
Use a UL Listed Cord Set consisting of a minimum 18 AWG, Type SVT or SJT three conductor cord a maximum of 15-feet in length and a parallel blade, grounding type attachment plug rated 15 A, 125 V.

For units set at 230 V:
Use a UL Listed Cord Set consisting of a minimum 18 AWG, Type SVT or SJT three conductor cord a maximum of 15-feet in length and a tandem blade, grounding type attachment plug rated 15 A, 250 V.

Information for Users outside the U.S.

For units set at 230 V:
Use a Cord Set consisting of a minimum 18 AWG cord and grounding type attachment plug rated 15 A, 250 V. The Cord Set should have the appropriate safety approvals for the country in which the equipment will be installed and marked HAR.

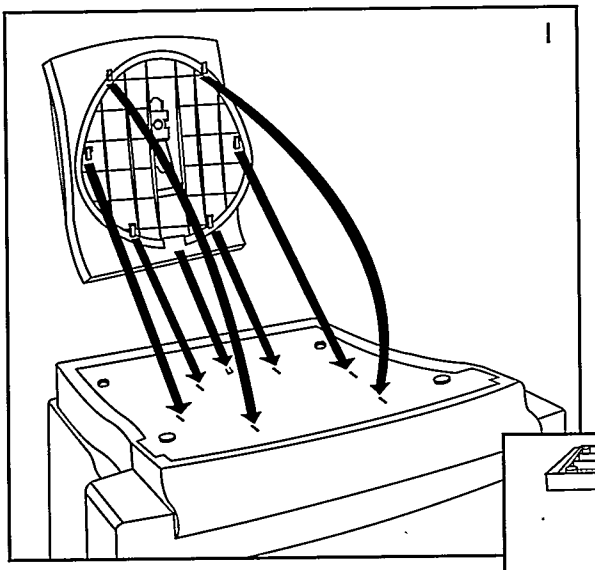
Hinweis

Der von uns gelieferte Farbmonitor entspricht den in der "Verordnung über den Schutz vor Schäden durch Röntgenstrahlen" festgelegten Vorschriften.

Auf der Rückwand des Gerätes befindet sich ein Aufkleber,der auf die Unbedenklichkeit der Inbetriebnahme hinweist, da die Vorschriften über die Bauart von Störstrahlern nach Anlage III § 5 Abs. 4 der Röntgenverordnung erfüllt sind.

Damit Ihr Monitor immer den in der Zulassung geforderten Werten entspricht, ist darauf zu achten, daß

1. Reparaturen nur durch Fachpersonal durchgeführt werden.
2. nur original-Ersatzteile verwendet werden.
3. bei Ersatz der Bildröhre nur eine bauartgleiche eingebaut wird.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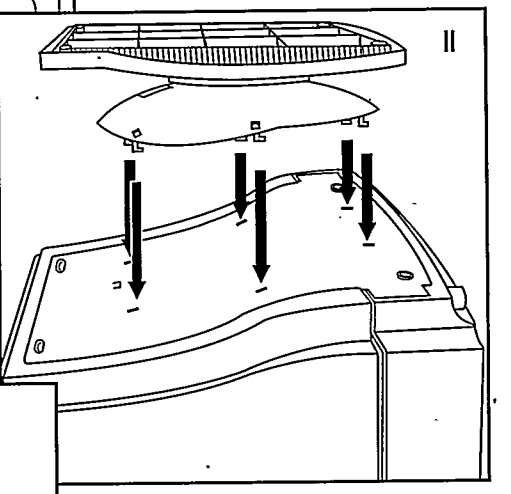
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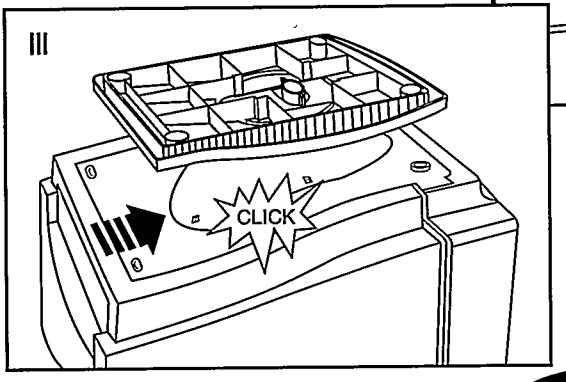
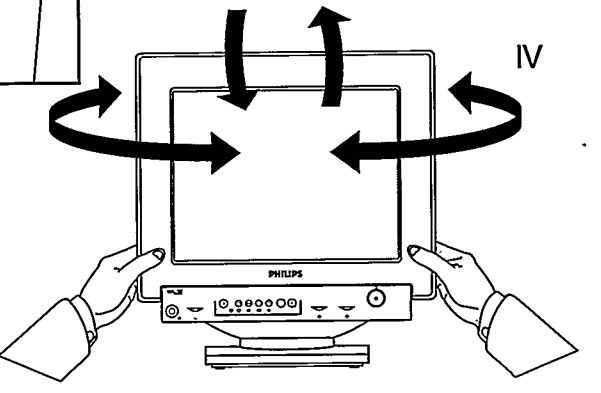
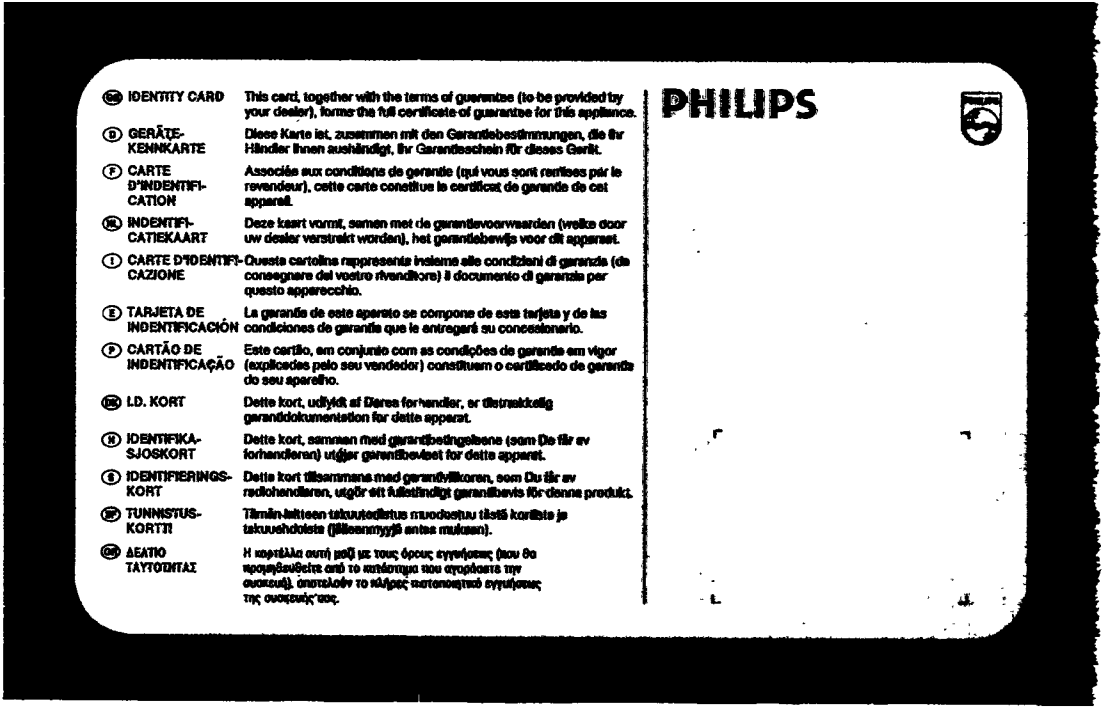

III
CLICK


IV
PHILIPS


IDENTITY CARD
This card, together with the terms of guarantee (to be provided by your dealer), forms the full certificate of guarantee for this appliance.
GERÄTE-KENNKARTE
Diese Karte ist, zusammen mit den Garantiebestimmungen, die Ihr Händler Ihnen aushändigt, Ihr Garantieschein für dieses Gerät.
CARTE D'IDENTIFI-CATION
Associée aux conditions de garantie (qui vous sont remises par le revendeur), cette carte constitue le certificat de garantie de cet appareil.
INDENTIFI-CATIEKAART
Deze kaart vormt, samen met de garantievoorwaarden (welke door uw dealer verstrekt worden), het garantiebewijs voor dit apparaat.
CARTE D'IDENTIFI-CAZIONE
Questa cartolina rappresenta insieme alle condizioni di garanzia (da consegnare dal vostro rivenditore) il documento di garanzia per questo apparecchio.
TARJETA DE INDENTIFICACIÓN
La garantía de este aparato se compone de esta tarjeta y de las condiciones de garantía que le entregará su concesionario.
CARTÃO DE INDENTIFICAÇÃO
Este cartão, em conjunto com as condições de garantia em vigor (explicadas pelo seu vendedor) constituem o certificado de garantia do seu aparelho.
I.D. KORT
Dette kort, udfyldt af Deres forhandler, er tilstrækkelig garantidokumentation for dette apparat.
IDENTIFIKA-SJONSKORT
Dette kort, sammen med garantibetingelsene (som De får av forhandleren) utgjør garantibeviset for dette apparat.
IDENTIFIERINGS-KORT
Detta kort tillsammans med garantivillkoren, som Du får av radiohandlaren, utgör ett fullständigt garantibevis för denna produkt.
TUNNISTUS-KORTTI
Tämän laitteen takuutodistus muodostuu tästä kortista ja takuuehdoista (jälleenmyyjä antaa mukaan).
ΔΕΛΤΙΟ ΤΑΥΤΟΤΗΤΑΣ
Η καρτέλλα αυτή μαζί με τους όρους εγγυήσεως (που θα προμηθευθείτε από το κατάστημα που αγοράσατε την συσκευή), αποτελούν το πλήρες πιστοποιητικό εγγυήσεως της συσκευής σας.
PHILIPS

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